

REMARKS

Claims 1-6 and 8-13 are pending in the application. By this Amendment, the specification is amended, Claims 7 and 14 are canceled, and Claims 1 and 8 are amended.

In the Office Action, the Examiner rejects Claims 1-3, 5 and 8-11 under 35 U.S.C. §102(b) over U.S. Patent No. 5,668,648 to Saito (Saito). This rejection is respectfully traversed.

Saito discloses that a holographic image 46 is generated by forming an interference pattern on a spatial light modulator of a display subunit 40, and illuminating the spatial light modulator with a reconstructing light from a light source 42. See, *e.g.*, Figure 1 and Column 5, Lines 45-51. Saito discloses that the spatial light modulator can be a liquid crystal panel, or a deformable mirror device. See, *e.g.*, Column 13, Lines 8-35.

However, as acknowledged by the Examiner at the bottom of page 3 of the Office Action, Saito fails to disclose or suggest forming a medium including a computed interference pattern to modify incident light so that the modified incident light includes a holographic image of the object, *wherein the forming includes printing the computed interference pattern on a printable medium*, as recited in Claim 1. Saito likewise fails to disclose or suggest an apparatus for storing a holographic interference pattern including means for computing the interference pattern based on a mathematical description of an object and means for forming a medium including the interference pattern to modify incident light so that the modified incident light comprises a holographic image of the object, *wherein the forming means is a printer*, as recited in Claim 8. For at least these

reasons, Saito fails to disclose independent Claims 1 and 8, and likewise fails to disclose dependent Claims 2-6 and 9-13.

In the Office Action, the Examiner rejects Claims 4, 6-7, and 12-14 under 35 U.S.C. §103(a) over Saito in view of "Official Notice". This rejection is respectfully traversed. The Examiner apparently takes official notice that printing a *computed* hologram interference pattern on a printable medium was well known at the time of Applicant's invention. The Examiner's assertion of "Official Notice" is respectfully traversed.

As set forth in *in re Ahlert*, 424 F2d 1088, 1091, 165 USPQ 418, 420-421 (CCPA 1970), assertions of technical facts in the areas of esoteric technology or specific knowledge of the prior art must always be supported by citation to some reference work recognized as standard in the pertinent art. Accordingly, Applicant requests the Examiner to provide prior art documents to support the assertion that printing a *computed* hologram interference pattern on a printable medium was well known at the time of the invention.

For at least the above reasons, Applicant respectfully submits that the asserted combination fails to disclose or suggest the claimed invention. Withdrawal of the rejections under 35 U.S.C. §§102, 103 is respectfully requested.

Applicants respectfully submit that the application is in condition for allowance. In the event any questions arise regarding this communication or the application in general, the Examiner is invited to contact Applicant's undersigned representative at the telephone number listed below.

Respectfully submitted,

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I hereby certify that this document is being filed by personal delivery to the Customer Service Window, Crystal Plaza 2, 2011 South Clark Place, Arlington Virginia, of the United States Patent & Trademark Office on the date indicated above.

By: *Patrick C. Keane* Reg. No. 35,333
(Attorney Signature and Reg. No.)

Attachment to dated

Marked-up Copy

Page __, Paragraph Beginning at Line __

•❖Type out paragraph with bracketing and underlining.❖•

Page __, Paragraph Beginning at Line __

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Attachment to dated

Marked-up Claims -

___ (Amended) ♦♦Type claims with bracketing and underlining.♦♦

___ (Twice Amended)

NOTE:
Do NOT include new or canceled claims.